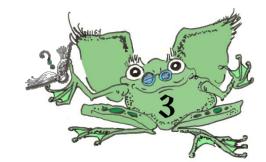
## **MiSP Motion Assessment L3**

	Name:	Date:		
	r questions 1–4, show the formula, th			
	<u>Formula</u>	Substitution	<u>Final Answer</u>	
2	A baseball is thrown a distance of 20 t	meters in 0.5 seconds. What is the	e speed of the baseball?	
	<u>Formula</u>	<u>Substitution</u>	<u>Final Answer</u>	
	How much time does it take for a bird distance of 3,000 kilometers?	l flying at a speed of 65 kilometer	rs per hour to travel a	
	<u>Formula</u>	Substitution	Final Answer	



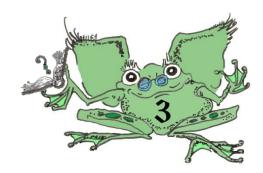
4. A comet is cruising through the solar system at a speed of 50,000 kilometers per hour for 4 hours' time. What is the total distance traveled by the comet during this time?

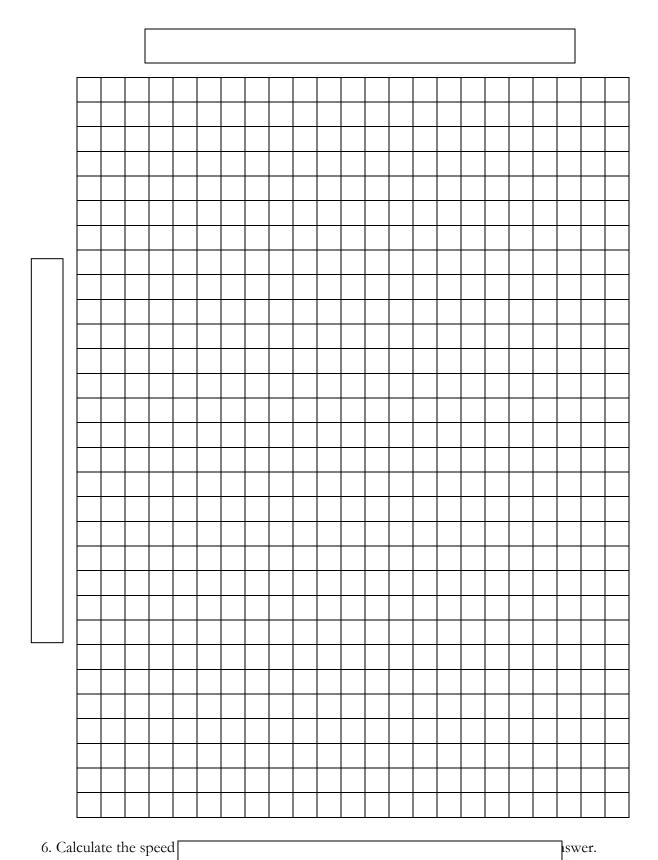
<u>Formula</u>	<u>Substitution</u>	<u>Final Answer</u>

5. A car traveled a total distance of 200 kilometers in 2 hours. The data table below shows the car's distance from the starting location at 0.5-hour intervals during the trip.

Time	Distance
(hours)	(kilometers)
0.0	0
0.5	50
1.0	100
1.5	150
2.0	200

Plot the time and distance on the grid on the next page.





Calculate the slope of the line Ordered Pairs:	e using two	o orde	red pairs o	n the li	ine.		
	and	$(x_2, y_2)$	y <sub>2</sub> )				
Formula for the slope of a li	ne =		Calculati	on:			
	Slope	=					
What would be the approxim	ate distan	ce the	car travele	d in 3.5	5 hours?		
Calculation:				] ,			
					Distance =	: 	
s this car traveling at a const	ant speed		How	do vou	know?		
s tills car travelling at a const	ant speed		110w	do you	KIIOW:		

10.	What is the <i>y</i> -intercept of the line?
	Using the slope and the <i>y</i> -intercept, determine the equation of this line. Include the formula for a line in your answer.
12.	Using this equation of the line, calculate how far the car would travel in 3.5 hours. Show all of your work!
13.	Another car is traveling at a slower speed. Draw a line on your graph that could represent the speed of the second car. Label this line "second car."

